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PE NUMBER: 0207701F

PE TITLE: Full Combat Mission Training

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2004

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0207701F Full Combat Mission Training

Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	3.585	6.887	5.894	7.240	6.804	7.269	6.857	0.000	0.000
5012 Full Combat Mission Training	3.585	6.887	5.894	7.240	6.804	7.269	6.857	0.000	0.000

(U) **A. Mission Description and Budget Item Justification**

Full Combat Mission Training supports Air Force Distributed Mission Operations (DMO). DMO is an operational readiness initiative enabling the USAF to exercise and train at the operational and strategic levels of war while facilitating unit-level training. Networked Live-Virtual-Constructive components form the integrated DMO battlespace by linking geographically distributed high fidelity combat and combat support training devices including C2 and ISR systems.

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	3.650	6.946	
(U) Current PBR/President's Budget	3.585	6.887	5.894
(U) Total Adjustments	-0.065	-0.059	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.059	
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.065		
(U) <u>Significant Program Changes:</u>			

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Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT NUMBER AND TITLE		
05 System Development and Demonstration (SDD)				0207701F Full Combat Mission Training			5012 Full Combat Mission Training		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
5012 Full Combat Mission Training	3.585	6.887	5.894	7.240	6.804	7.269	6.857	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

Full Combat Mission Training supports Air Force Distributed Mission Operations (DMO). DMO is an operational readiness initiative enabling the USAF to exercise and train at the operational and strategic levels of war while facilitating unit-level training. Networked Live-Virtual-Constructive components form the integrated DMO battlespace by linking geographically distributed high fidelity combat and combat support training devices including C2 and ISR systems.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Continue development, demonstration and insertion of multi-level security capability	0.450	1.170	1.050
(U) Continue development, demonstration, studies and insertion of DMO related technologies and proficiency based continuation training strategies. Includes but not limited to common databases, improved image generation fidelity, enhanced Brief/Debrief capabilities and Mission Essential Competencies	1.699	3.877	0.268
(U) Studies to assess and validate warfighter seasoning required/desired in continuation training and accreditation of portions of this experiencing process utilizing the Mission Essential Competencies (MECs) in the DMO environment			0.817
(U) Studies to Develop objective performance enhancement and measurement tools, for use in the DMO environment, which will be used for certification of a team and/or a team of teams proficiency/currency			0.817
(U) Identify training and rehearsal gaps in DMO architecture based on current weapons system and operational tactics, training, procedures (TTPs), especially those essential to operational Kill Chain			0.816
(U) Continue Program office support	1.436	1.840	2.126
(U) Total Cost	3.585	6.887	5.894

(U) **C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) PE 0207701, Full Combat Mission Training, O & M, AF	81.044	102.053	133.485	141.209	138.379	140.803	144.145	Continuing	TBD

(U) **D. Acquisition Strategy**

Each platform joining the Distributed Mission Operations (DMO) environment selects its own acquisition strategy based on using command needs, business base considerations and the magnitude of the training system changes required to provide DMO capability. The pioneer systems in DMO include F-15C, AWACS, F-16, Operations and Integration and F-15E all required new training systems. The Commercial Training Simulation Service (CTSS) acquisition strategy was used for these systems. In the CTSS approach, the contractor owns and provides the simulator equipment, maintains simulator concurrency with weapons system, and has incentives to

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Exhibit R-2a, RDT&E Project Justification		DATE February 2004
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207701F Full Combat Mission Training	PROJECT NUMBER AND TITLE 5012 Full Combat Mission Training
<p>keep the equipment up to date with simulator and network technologies</p>		
<p>Project 5012</p>		
<p>R-1 Shopping List - Item No. 98-3 of 98-6</p>		
<p>Exhibit R-2a (PE 0207701F)</p>		

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Exhibit R-3, RDT&E Project Cost Analysis

DATE

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BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
05 System Development and Demonstration (SDD)					0207701F Full Combat Mission Training				5012 Full Combat Mission Training				
(U) <u>Cost Categories</u>	<u>Contract Method</u>	<u>Performing Activity &</u>	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to</u>	<u>Total</u>	<u>Target</u>	
(Tailor to WBS, or System/Item Requirements)	<u>& Type</u>	<u>Location</u>	<u>Prior to FY</u>	<u>2003</u>	<u>2003</u>	<u>2004</u>	<u>2004</u>	<u>2005</u>	<u>2005</u>	<u>Complete</u>	<u>Cost</u>	<u>Value of</u>	
(\$ in Millions)			<u>2003</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>			<u>Contract</u>	
			<u>Cost</u>		<u>Date</u>		<u>Date</u>		<u>Date</u>				
(U) <u>Product Development</u>													
- Training Systems Product Group		- Training Systems											
- Air Force Research Lab Human Effectiveness Directorate		Product Group, AFMC, Wright Patterson AFB, OH - AFRL/HEA, Mesa, AZ	12.186	1.745		5.047		1.318		Continuing	TBD		
Subtotal Product Development			12.186	1.745		5.047		1.318		Continuing	TBD	0.000	
Remarks: Prior to FY 02 these fund were reported under		PE 0604227F											
(U) <u>Support</u>													
Air Force Research Lab Human Effectiveness Directorate		AFRL/HEA, Mesa, AZ	0.000	0.000		0.000		2.450		Continuing	TBD		
Subtotal Support			0.000	0.000		0.000		2.450		Continuing	TBD	0.000	
Remarks: Study areas included in Product development in FY 04 broken out separately in FY05													
(U) <u>Test & Evaluation</u>													
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:													
(U) <u>Management</u>													
Program Office Support		Training Systems Product Group, AFMC, Wright Patterson AFB, OH	4.910	1.840		1.840		2.126		Continuing	TBD		
Subtotal Management			4.910	1.840		1.840		2.126		Continuing	TBD	0.000	
Remarks: Prior to FY 02 these fund were reported under		PE 0604227F											
(U)													
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:													
(U) Total Cost			17.096	3.585		6.887		5.894		Continuing	TBD	0.000	
Project 5012													

R-1 Shopping List - Item No. 98-4 of 98-6

Exhibit R-3 (PE 0207701F)

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Exhibit R-4, RDT&E Schedule Profile

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PROJECT NUMBER AND TITLE

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Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule ProfileFY 2003FY 2004FY 2005

(U) F-16 Four Ship Operations begin: Shaw AFB

2Q

(U) F-15C 4- ship Operations begin: Elemendorf

4Q

(U) AWACS Operations begin: Elemendorf

4Q

(U) AWACS Operations begin: Tinker #2

1Q

(U) F-16 2-ship operations begin (adds one device): Mt. Home #2:

3Q

(U) F-16 4-ship operations begin: Spangdahlem

3Q

(U) AWACS Operations begin: Tinker #3

2Q

(U) F-15C Operations begin: Kadena

3Q

(U) F-16 4-ship operations begin: Misawa

3Q

(U) AWACS Operations begin: Kadena

3Q